

Comparisons of Job Characteristics

Focus Occupation: Forest and Conservation Workers (45-4011)

Associated Occupation: Conservation Scientists (19-1031)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 68

Focus Occupation: Forest and Conservation Workers (45-4011)

Associated Occupation: Conservation Scientists (19-1031)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|--|
| Biology | 3.7 | 16.2 | 12.8 | << Extensive education and/or training may be required |
| Geography | 3.9 | 14.3 | 13.8 | 0 Current knowledge level may be sufficient |
| Law and Government | 5.9 | 11.4 | 9.0 | < Expanded education and/or training may be required |
| History and Archeology | 2.6 | 9.0 | 5.1 | << Extensive education and/or training may be required |
| Food Production | 2.1 | 5.5 | 2.2 | << Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Forest and Conservation Workers (45-4011)

Associated Occupation: Conservation Scientists (19-1031)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|---|
| Science | 4.5 | 9.3 | 5.5 | << Extensive development of skills in this area may be required |
| Systems Analysis | 6.5 | 9.3 | 6.4 | << Extensive development of skills in this area may be required |
| Operations Analysis | 5.0 | 9.0 | 5.6 | << Extensive development of skills in this area may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 76 | | | |
|---|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Forest and Conservation Workers (45-4011) Associated Occupation: Conservation Scientists (19-1031) | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
| Oral Expression | 12.4 | 14.7 | 10.1 | << | Extensive improvement in abilities may be required |
| Oral Comprehension | 12.5 | 14.0 | 10.1 | << | Extensive improvement in abilities may be required |
| Written Comprehension | 11.0 | 13.7 | 8.0 | << | Extensive improvement in abilities may be required |
| Problem Sensitivity | 11.1 | 13.0 | 11.1 | < | Some improvement in abilities may be required |
| Speech Clarity | 10.2 | 12.7 | 8.3 | << | Extensive improvement in abilities may be required |
| Deductive Reasoning | 10.6 | 12.6 | 9.5 | << | Extensive improvement in abilities may be required |
| Inductive Reasoning | 10.2 | 12.2 | 8.5 | << | Extensive improvement in abilities may be required |
| Written Expression | 9.8 | 12.1 | 6.7 | << | Extensive improvement in abilities may be required |
| Speech Recognition | 9.9 | 12.0 | 8.3 | << | Extensive improvement in abilities may be required |
| Far Vision | 7.8 | 10.5 | 8.1 | < | Some improvement in abilities may be required |
| Originality | 7.6 | 10.1 | 6.2 | << | Extensive improvement in abilities may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 85 |
|---|-------------------------|---|
| Focus Occupation: Forest and Conservation Workers (45-4011) Associated Occupation: Conservation Scientists (19-1031) | | |
| Work Activities | Exclusivity of Activity | |
| Identify crop characteristics | 75 | |
| Interpret aerial photographs | 69 | |
| Read maps | 42 | |
| Read measuring or metering devices used in forestry | 89 | |
| Recognize plant diseases | 72 | |
| Recognize tree or forest plant species | 78 | |

| | |
|---|----|
| Recognize wood species characteristics | 78 |
| Use fire suppression techniques | 89 |
| Use hand or power tools | 2 |
| Use herbicides, fertilizers, pesticides or related products | 71 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 72

Focus Occupation: Forest and Conservation Workers (45-4011)
Associated Occupation: Conservation Scientists (19-1031)

| Tools and Technologies | Exclusivity |
|---|-------------|
| Audio and visual equipment | 4 |
| Computers | 1 |
| Content authoring and editing software | 1 |
| Information exchange software | 1 |
| Length and thickness and distance measuring instruments | 2 |
| Measuring and layout tools | 3 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.